

Level Sensors

Capacitive Level Detector

Type CD50 DC



- Basic capacitive water level sensor
- For water storage tanks in mini-pools and whirlpools
- Detection of excess water in the whirlpool tub
- Safety device to control the operation of the pump.
- Mounting by screws or glued on the outside of any non-metallic tank
- Supply 10-30 VDC or 5 VDC

Product Description

Capacitive level detector. 3-wire DC sensor with open collector NPN transistor output. The sensor is available in a 5 VDC version and a 10-30 VDC version.

The sensing distance is fixed and works through a non-metallic wall of up to 20 mm of thickness.

Ordering Key

CD50 CNF 06 NO

Capacitive proximity switch	_____
Housing style	_____
Housing size	_____
Housing material	_____
Housing length	_____
Detection principle	_____
Sensing distance	_____
Output type	_____
Output configuration	_____

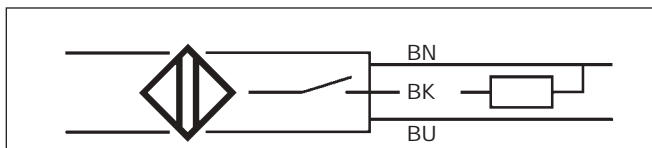
Type Selection

Supply	Housing size (mm)	Mounting	Ordering no. Transistor NPN/cable, make switching
10-30 VDC	50 x 30 x 7	M3 screws or glued	CD50CNF06NO
5 VDC	50 x 30 x 7	M3 screws or glued	CD50CNF05NO

Specifications

Rated operation dist. (S_n) Fixed CD50CNF06NO Fixed CD50CNF05NO	6 mm (ref. st. 37 grounded) 5 mm (ref. st. 37 grounded)	Frequency of operating cycles (f)	10 Hz
Rated operational volt. (U_o) Fixed CD50CNF06NO Fixed CD50CNF05NO	10-30 VDC \pm 10% (ripple included) 5 VDC \pm 10% (ripple included)	Output	Open collector, NPN, make switching
Ripple	\leq 10%	Environment Degree of protection Operating temperature Storage temperature	IP 67 0 to +60°C (32 to +140°F) -30 to +75°C (-22 to +167°F)
Rated operational current (I_o) Continuous	\leq 50 mA	Housing material	Noryl, grey
No-load supply current (I_o)	\leq 10 mA	Connection Cable	2.0 m, 3 x 0.25 mm ² grey PVC, oil proof
Leakage current	$<$ 100 μ A	Weight	120 g
Voltage drop (U_d) @ 50 mA	$<$ 1.5 V	CE-marking	Yes

Wiring Diagram



Delivery Contents

- Capacitive switch CD50CNF06NO or CD50CNF05NO
- Packaging: Plastic bag



Dimensions

